

## CLAIMS

1. A fuel cell comprising:

5 a plurality of unit cells electrically connected to each other, each of  
said unit cell having a shared common solid electrolyte membrane, a fuel  
electrode disposed on one surface of said solid electrolyte membrane, and  
an oxidizer electrode disposed on the other surface of said solid electrolyte  
membrane in opposition to said fuel electrode associated therewith; and  
10 a low ion conductivity region between adjacent ones of said unit  
cells.

2. The fuel cell according to claim 1, wherein said low ion  
conductivity feature region is a region of said solid electrolyte membrane  
having a groove formed on it.

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3. The fuel cell according to claim 2, wherein said groove is filled  
with an insulating resin.

4. The fuel cell according to claim 1, wherein said low ion  
20 conductivity region is a region of said solid electrolyte membrane having a  
recess formed on it.

5. The fuel cell according to claim 4, wherein said recess is filled with  
an insulating resin.

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6. The fuel cell according to claim 3, wherein said insulating resin is

any of a fluorine-based resin, a polyimide-based resin, a phenol-based resin,  
and an epoxy-based resin.

7. The fuel cell according to claim 5, wherein said insulating resin is  
5 any of a fluorine-based resin, a polyimide-based resin, a phenol-based resin,  
and an epoxy-based resin.

8. The fuel cell according to claim 1, further comprising a fuel flow  
path for supplying a fuel to two or more of said fuel electrodes, wherein said  
10 fuel flow path has a partition, part of which is comprised of said solid  
electrolyte membrane.

9. The fuel cell according to claim 1, wherein at least two of said  
plurality of unit cells are connected in series.  
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10. The fuel cell according to claim 1, wherein at least two of said  
plurality of unit cells are connected in parallel.

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